

Section 49 Piling

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4-4901 General

Section 49, “Piling,” of the *Standard Specifications* includes specifications for cast-in-place concrete, steel, timber, and precast prestressed concrete piling. Other materials for piling may be shown on the plans or required in the special provisions. For detailed information regarding piling, see Section 130, “Foundations,” of the *Bridge Construction Records and Procedures Manual* and in the Office of Structure Construction’s (OSC) *Foundation Manual*.

4-4901 General

4-4902 Before Work Begins

Before work begins, take the following actions:

- Review the project plans to determine the locations where piling will be installed adjacent to traffic lanes opened to the public. Before any work begins, require the contractor to submit for approval a pile-handling plan for work adjacent to traffic.
- At the start of a project, do a field review of locations where piling is to be installed, and check for overhead obstructions and underground utilities that the project plans may not have addressed. Early identification of conflicts can avoid lengthy and costly delays to the project.
- Verify the receipt and proper distribution of Form CEM-3101, “Notice of Materials to Be Used,” which lists piling materials.
- For instructions on preparing pile records to be kept during piling operations, review Bridge Construction Memo 3-7.0, “Pile Records,” of the *Bridge Construction Records and Procedures Manual*.

4-4902 Before Work Begins

4-4903 During the Course of Work

Piling operations are dangerous. The OSC *Foundation Manual* contains safety information for various types of piling operations. In addition, the OSC Code of Safe Practices, on the OSC web site, contains safety guidelines to follow for various piling operations. Before the contractor’s operations begin, review both sources of information, in addition to the contractor’s pile-handling plan if required, in a tailgate safety meeting.

Record drilling and driving information as required in the Bridge Construction Memo 3-7.0, “Pile Records,” of the *Bridge Construction Records and Procedures Manual*. At the completion of the piling operation, forward the piling information collected to the OSC office in Sacramento.

4-4903 During the Course of Work

4-4904 Measurement and Payment

For piling in place, measure by the meter, measuring the longest side from the tip of the pile to the plane of pile cut-off. In addition, driven piles include an additional item for driving each pile. Record information about drilling, driving, and measurements in accordance with the Bridge Construction Memo 3-7.0, “Pile Records,” of the *Bridge Construction Records and Procedures Manual*.

4-4904 Measurement and Payment